

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently Amended): An anti-reflection film that is an optical film, comprising, at least, a hard coat layer, and a low-refractive-index layer containing a binder polymer, on a transparent support,

wherein said binder polymer in the low-refractive-index layer is a fluorine-containing polymer that is a perfluoroolefin copolymer, and

wherein said hard coat layer and/or said low-refractive-index layer contains:

(a) a hydrolysate of an organosilane in which a hydroxyl group or a hydrolysable group is directly bonded to silicon, and/or a partial condensation product thereof; and

(b) at least one metal chelate compound of an alcohol represented by formula R^3OH , in which R^3 represents an alkyl group having 1 to 10 carbon atoms, and a compound represented by formula $R^4COCH_2COR^5$, in which R^4 represents an alkyl group having 1 to 10 carbon atoms, and R^5 represents an alkyl group having 1 to 10 carbon atoms or an alkoxy group having 1 to 10 carbon atoms, as ligands, and a metal selected from the group consisting of Zr, Ti and Al, as a central metal.

Claim 2 (Original): The anti-reflection film according to Claim 1, wherein said hard coat layer contains an inorganic filler composed of an oxide of at least one element selected from the group consisting of zirconium, titanium, aluminum, indium, zinc, tin, antimony and silicon.

Claim 3 (Original): The anti-reflection film according to Claim 1, wherein said low-refractive-index layer contains an inorganic filler selected from silica and magnesium fluoride.

Claim 4 (Original): The anti-reflection film according to Claim 1, wherein at the surface on said low-refractive-index layer side, a coefficient of dynamic friction is in the range of 0.03 to 0.15, and a contact angle to water is in the range of 90 to 120°.

Claim 5 (Original): The anti-reflection film according to Claim 1, wherein a surface energy of said hard coat layer is in the range of 25 mN·m⁻¹ to 70 mN·m⁻¹.

Claim 6 (Canceled)

Claim 7 (Original): The anti-reflection film according to Claim 1, wherein said organosilane of (a) the hydrolysate of an organosilane, in which a hydroxyl group or a hydrolysable group is directly bonded to silicon, and/or the partial condensation product thereof, is an organosilane represented by formula (A):



in which R¹⁰ represents a substituted or unsubstituted alkyl or aryl group; X represents a hydroxyl group or a hydrolysable group; ml represents an integer of 0 to 3; and nl represents an integer of 1 to 4, in which the total of ml and nl is 4.

Claim 8 (Original): The anti-reflection film according to Claim 7, wherein the group R^{10} of said organosilane in formula (A) is a group containing an epoxy group, or a (meth)acryloyl group.

Claim 9 (Canceled)

Claim 10 (Original): The anti-reflection film according to claim 1, wherein said binder polymer in the low-refractive-index layer is a fluorine-containing polymer that has a recurring unit containing a radical polymerizing group or a cation ring-opening polymerizing group at a side chain of said fluorine-containing polymer.

Claim 11 (Original): A method of producing an anti-reflection film according to Claim 1, comprising:

at least, coating a hard coat layer and a low-refractive-index layer containing a binder polymer, on a transparent support, wherein a coating solution of said hard coat layer and/or a coating solution of said low-refractive-index layer comprises:

the hydrolysate of said organosilane and/or the partial condensation product thereof represented by (a);

the metal chelate compound represented by (b); and

(c) a β -diketone compound and/or a β -ketoester compound represented by formula $R^4COCH_2COR^5$, in which R^4 and R^5 each have the same meanings as those in the (b).

Claim 12 (Original): A polarizing plate, comprising a polarizing layer and two sheets of protective films of the polarizing layer,
wherein at least one of said protective films comprises the anti-reflection film according to Claim 1.

Claim 13 (Original): A polarizing plate, comprising a polarizing layer and two sheets of protective films of the polarizing layer,
wherein at least one of said protective films comprises the anti-reflection film produced by the production method according to Claim 11.

Claim 14 (Original): A display device, having the anti-reflection film according to Claim 1,
wherein the low-refractive-index layer is arranged on the viewer side.

Claim 15 (Original): A display device, having the anti-reflection film produced by the production method according to Claim 11,
wherein the low-refractive-index layer is arranged on the viewer side.

Claim 16 (Original): A display device, having the polarizing plate according to Claim 12,
wherein the low-refractive index layer is arranged on the viewer side.

Claim 17 (Original): A display device, having the polarizing plate according to Claim 13,
wherein the low-refractive-index layer is arranged on the viewer side.

Claims 18-20 (Canceled)